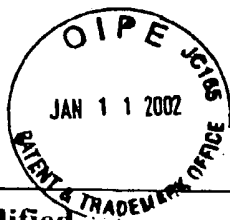


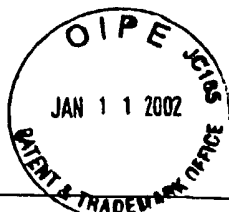


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		Applicant Muthiah Manoharan	
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JDS	AA	Albert, P.R. et al., "Antisense knockouts: molecular scalpels for the dissection of signal transduction", <i>Trends Pharmacol. Sci.</i> , 1994, 15, 250-254	
*	AB	Ausubel, F.M. et al., (eds.), <i>Current Protocols in Molecular Biology</i>, Current Publications, 1993 NOT SUPPLIED	
JDS	AC	Baker, B.F. et al., "2'-O-(2-Methoxy)ethyl-modified Anti-intercellular Adhesion Molecule 1 (ICAM-1) Oligonucleotides Selectively Increase the ICAM-1 Translation Initiation Complex in Human Umbilical Vein Endothelial Cells", <i>J. Biol. Chem.</i> , 1997, 272, 11994-12000	
	AD	Berkow et al. (eds.), <i>The Merck Manual of Diagnosis and Therapy</i> , 15th Edition, Rahway, N.J., 1987, 2301-2310	
	AE	Berkow et al. (eds.), <i>The Merck Manual of Diagnosis and Therapy</i> , 15th Edition, Rahway, N.J., 1987, 2263-2277	
	AF	Berkow et al. (eds.), <i>The Merck Manual of Diagnosis and Therapy</i> , 15th Edition, Rahway, N.J., 1987, 2283-2287	
	AG	Berkow et al. (eds.), <i>The Merck Manual of Diagnosis and Therapy</i> , 15th Edition, Rahway, N.J., 1987, 2286-2292	
	AH	Bernhard et al., "Direct Evidence Linking Expression of Matrix Metalloproteinase 9 (92-kDa gelatinase/collagenase) to the metastatic phenotype in transformed rat embryo cells," <i>Proc. Natl. Acad. Sci. U.S.A.</i> , 1994, 91, 4293-4297	
	AI	Birkedal-Hansen, "Proteolytic Remodeling of Extracellular Matrix," <i>Curr. Op. Cell Biol.</i> , 1995, 7, 728-735	
	AJ	Boggemeyer et al., "Borrelia Burgdorferi Upregulates the Adhesion Molecules E-selectin, P-selectin, ICAM-1 and VCAM-1 on Mouse Endothelioma Cells in vitro," <i>Cell Adhes. Commun.</i> , 1994, 2, 145-157	
✓	AK	Cook, P.D., "Medicinal chemistry of antisense oligonucleotides - future opportunities", <i>Anti-Cancer Drug Design</i> , 1991, 6, 585-607	
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JDS	AL	Crooke, S.T. et al., "Pharmacokinetic Properties of Several Novel Oligonucleotide Analogs in mice", <i>J. Pharmacol. Exp. Therapeutics</i> , 1996 , 277, 923-937	
	AM	Crooke, S.T. et al., "Progress in Antisense Oligonucleotide Therapeutic", <i>Ann. Rev. Pharmacol. Toxicol.</i> , 1996 , 36, 107-129	
	AN	Dean, N.M. et al., "Inhibition of protein kinase C- α expression in mice after systemic administration of phosphorothioate antisense oligodeoxynucleotides", <i>Proc. Natl. Acad. Sci.</i> , 1994 , 91, 11762-11766	
	AO	DeLisser et al., "Molecular and Functional Aspects of PECAM-1/CD31," <i>Immunol. Today</i> , 1994 , 15, 490-494	
	AP	Downward, "The ras Superfamily of Small GTP-binding proteins," <i>TIBS</i> , 1990 , 15, 469-472	
	AQ	Englisch, U. et al., "Chemically Modified Oligonucleotides as Probes and Inhibitors", <i>Angew. Chem. Int. Ed. Eng.</i> , 1991 , 30, 613-629	
	AR	Griffiths, C.E.M. et al., "Keratinocyte Intercellular Adhesion Molecule-1 (ICAM-1) Expression Precedes Derman T Lymphocyte Infiltration in Allergic Contact Dermatitis (<i>Rhus dermatitis</i>)", <i>Am. J. Pathology.</i> , 1989 , 135, 1045-1053	
	AS	Gum et al., "Stimulation of 92-kDa Gelatinase B Promoter Activity by ras Is Mitogen-activated Protein Kinase Kinase 1-independent and Requires Multiple Transcription Factor Binding Sites Including Closely Spaced PEA3/ets and AP-1 Sequences," <i>J. Biol. Chem.</i> , 1996 , 271, 10672-10680	
	AT	Hakugawa et al., "The Inhibitory Effect of Anti-Adhesion Molecule Antibodies on Eosinophil Infiltration in Cutaneous Late Phase Response in Balb/c Mice Sensitized with Ovalbumin (OVA)," <i>J. Dermatol.</i> , 1997 , 24, 73-79	
	AU	Hegemann, L. et al., "Biochemical Pharmacology of Protein Kinase C and its Relevance for Dermatology", <i>Pharmacology of the Skin</i> , Mukhtar, H. (ed.), CRC Press, Boca Raton, 1992 , Ch.22, 357-268	
✓	AV	Himelstein et al., "Proteases and Their Inhibitors in Invasion and Metastasis, Metalloproteinases in Tumor Progression: The Contribution of MMP-9," <i>Invasion Metastasis</i> , 1994-95 , 14, 246-258	
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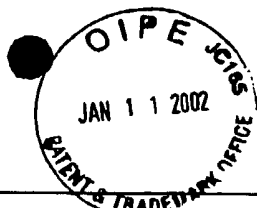


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	AX	Hua et al., "Inhibition of Matrix Metalloproteinase 9 Expression by a Ribozyme Blocks Metastasis in a Rat Sarcoma Model System," <i>Cancer Res.</i> , 1996 , 56, 5279-5284	
	AY	Hurtenbach et al., "Prednisolone Reduces Experimental Arthritis and Inflammatory Tissue Destruction in Scid Mice Infected with <i>Borrelia Burgdorferi</i> ," <i>Int. J. Immunopharmac.</i> , 1996 , 18, 281-288	
	AZ	Kabanov, A.V., "A new class of antivirals: antisense oligonucleotides combined with a hydrophobic substituent effectively inhibit influenza virus reproduction and synthesis of virus-specific proteins in MDCK cells", <i>FEBS Letts.</i> , 1990 , 259, 327-330	
	BA	Katocs, A.S. et al., "Biological Testing", <i>Remington's Pharmaceutical Sciences</i> , 18th Ed., Gennaro (ed.), Mack Publishing Co., Easton, PA, 1990 , Ch. 27, 484-494	
	BB	Kerr et al., "TGF-B1 Inhibition of Transin/Stromelysin Gene Expression Is Mediated Through a Fos Binding Sequence," <i>Cell</i> , 1990 , 61, 267-278	
	BC	Kerr et al., "Growth Factors Regulate Transin Gene Expression by c-fos-Dependent and c-fos-Independent Pathways," <i>Science</i> , 1988 , 242, 1424-1427	
	BD	Kroschwitz, J.I., "Polynucleotides", <i>Concise Encyclopedia of Polymer Science and Engineering</i> , 1990 , John Wiley & Sons, New York, 858-859	
	BE	Letsinger, R.L. et al., "Cholesteryl-conjugated oligonucleotides: Synthesis, properties and activity as inhibitors of replication of human immunodeficiency virus in cell culture", <i>Proc. Natl. Acad. Sci.</i> , 1989 , 86, 6553-6556	
	BF	Lisby, S. et al., "Intercellular adhesion molecule-1 (ICAM-1) expression correlated to inflammation", <i>Br. J. Dermatol.</i> , 1989 , 120, 479-484	
↓	BG	Litwin et al., "Novel Cytokine-independent Induction of Endothelial Adhesion Molecules Regulated by Platelet/Endothelial Cell Adhesion Molecule (CD31)," <i>The Journal of Cell Biology</i> , 1997 , 139, 219-228	
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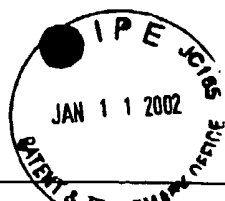
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	BL	Manoharan, M. et al., "Lipidic Nucleic Acids", <i>Tetrahedron Letts.</i> , 1995, 36, 3651-3654	
	BM	Manoharan M. et al., "Oligonucleotide Conjugates: Alteration of the Pharmacokinetic Properties of Antisense Agents", <i>Nucleosides and Nucleotides</i> , 1995, 14, 969-973	
	BN	Martin, P., "Ein neuer Zugang zu 2'-O-Alkylribonucleosiden und Eigenschaften deren Oligonucleotide", <i>Helvetica Chemica Acta</i> , 1995, 78, 486-504 (English summary included)	
	BO	Meyer, R.B. et al., "Efficient, Specific Cross-Linking and Cleavage of DNA by Stable, Synthetic Complementary Oligodeoxynucleotides", <i>J. Am. Chem. Soc.</i> , 1989, 111, 8517-8519	
	BP	Mishra, R.K. et al., "Improved leishmanicidal effect of phosphorothioate antisense oligonucleotides by LDL-mediated delivery", <i>Biochim. Et Biophysica</i> , 1995, 1264, 229-237	
	BQ	Newman, "The Biology of PECAM-1," <i>J. Clin. Invest.</i> , 1997, 99, 3-7	
	BR	Nies, A.S. et al., "Principles of Therapeutics", <i>Goodman & Gilman's The Pharmacological Basis of Therapeutics</i> , 9th Ed., Hardman et al. (eds.), McGraw-Hill, New York, NY, 1996, Ch. 3, 43-62	
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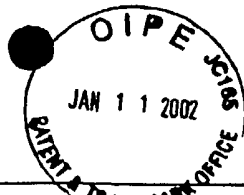


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	BT	Regezi et al., "Vascular Adhesion Molecules in Oral Lichen Planus," <i>Oral Surg. Oral Med. Oral Pathol.</i> , 1996, 81, 682-690	
	BU	Ruoslahti, "Fundamental Understandings: How Cancer Spreads," <i>Sci. Am.</i> , 1996, 72-77	
↓	BV	Saison-Behmoaras, T. et al., "Short modified antisense oligonucleotides directed against Ha-ras point mutation induce selective cleavage of the mRNA and inhibit T24 cells proliferation", <i>EMBO J.</i> , 1991, 10, 1111-1118	
*	BW	Sambrook et al. (eds.), <i>Molecular Cloning: A Laboratory Manual</i>, Second Ed., Cold Spring Harbor Laboratory Press, 1989 <i>Not Supplied</i>	
IDS	BX	Sanghvi, Y.S., "Heterocyclic Base Modifications in Nucleic acids and their Applications in Antisense Oligonucleotides", <i>Antisense Research and Applications</i> , 1993, Chapter 15, CRC Press, Boca Raton, 273-288	
	BY	Secrist, J.A. et al., "Synthesis and Biological Activity of 4'-Thionucleosides", <i>10th International Roundtable: Nucleosides, Nucleotides and their Biological Applications</i> , Sept. 16-20 1992, Abstract 21, Park City, Utah, 40	
	BZ	Shea, R.G. et al., "Synthesis, hybridization properties and antiviral activity of lipid-oligodeoxynucleotide conjugates", <i>Nucl. Acids Res.</i> , 1990, 18, 3777-3783	
	CA	Shiohara et al., "Fixed drug Eruption: Expression of Epidermal Keratinocyte Intercellular Adhesion Molecule-1 (ICAM-1)", <i>Arch. Dermatol.</i> , 1989, 125, 1371-1376	
	CB	Smith-Jones, P.M. et al., "Antibody Labeling with Copper-67 Using the Bifunctional Macrocyclic 4-[(1,4,8,11-Tetraazacyclotetradec-1-yl)methyl] benzoic Acid", <i>Bioconjugate Chem.</i> , 1991, 2, 415-421	
↓	CC	Stetler-Stevenson et al., "Tumor Cell Interactions with the Extracellular Matrix During Invasion and Metastasis," <i>Annu. Rev. Cell Biol.</i> , Palade, G.E. et al. (eds.), 1993, 9, 541-573	
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	CE	Svinarchuk, F.P. et al., "Inhibition of HIV proliferation in MT-4 cells by antisense oligonucleotide conjugated to lipophilic groups", <i>Biochimie</i> , 1993 , 79, 49-54	
	CF	U.S. Congress, Office of Technology Assessment, "The State-of-the-art in Genetic Screening", <i>Genetic Monitoring and Screening in the Workplace</i> , OTA-BA-455, U.S. Government Printing Office, Washington, D.C., 1990 , Ch. 5, 77-99	
	CG	Wahlestedt, C. et al., "Modulation of Anxiety and Neuropeptide Y-Y1 Receptors by Antisense Oligodeoxynucleotides", <i>Science</i> , 1993 , 259, 528-531	
	CH	Wahlestedt, C. et al., "Antisense oligodeoxynucleotides to NMDA-R1 receptor channel protect cortical neurons from excitotoxicity and reduce focal ischaemic infarctions", <i>Nature</i> , 1993 , 363, 260-263	
	CI	Zhang, Z. et al., "Uptake of N-(4'-pyridoxyl)amines and release of amines by renal cells: A model for transporter-enhanced delivery of bioactive compounds", <i>Proc. Natl. Acad. Sci.</i> , 1991 , 88, 10407-10410	
	CJ	Delgado, C. et al., "The Uses and Properties of PEG-Linked Proteins", <i>Crit. Rev. in Therapeutic Drug Carrier Sys.</i> , 1992 , 9, 249-304	
	CK	Hamm, M. L. et al., "Incorporation of 2'-Deoxy-2'-mercaptocytidine into Oligonucleotides via Phosphoramidite Chemistry," <i>J. Org. Chem.</i> , 1997 , 62, 3415-3420	
	CL	Ouchi, T. et al., "Synthesis and Antitumor Activity of Poly(Ethylene Glycol)s Linked to 5'-Fluorouracil via a Urethane or Urea Bond", <i>Drug Des. & Disc.</i> , 1992 , 9, 93-105	
	CM	Polushin, N. N. et al., "Synthesis of Oligonucleotides Containing 2'-Azido-and 2'-Amino-2'-deoxyuridine Using Phosphotriester Chemistry," <i>Tetra. Letts.</i> , 1996 , 37(19), 3227-3230	
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✓	CO	Thomson, J. B. et al., "Synthesis and Properties of Diuridine Phosphate Analogues Containing Thio and Amino Modifications," <i>J. Org. Chem.</i> , 1996 , 61, 6273-6281	
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	CQ	"Antisense '97: A roundtable on the state of the industry," <i>Nature Biotech.</i> , June 1997, 15, 519-524	
	CR	Cucco, C. et al., "In Vitro and in Vivo Reversal of Multidrug Resistance in a Human Leukemia resistant Cell Line by mdrl Antisense Oligodeoxynucleotides," <i>Canc. Res.</i> , 1990, 4332-4337	
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	CT	Furdon, P. J. et al., "RNase H Cleavage of RNA hybridized to oligonucleotides containing methylphosphonate, phosphorothioate and phosphodiester bonds," <i>Nucl. Acids Res.</i> , 1989, 17, 9193-9204	
	CU	Gerwitz, A. M. et al., "Facilitating oligonucleotide delivery: Helping antisense deliver on its promise," <i>Proc. Natl. Acad. Sci.</i> , 1996, 93, 3161-3163	
	CV	Gura, T., "Antisense has Growing Pains," <i>Science</i> , 1995, 270, 575-577	
	CW	Jen, K.-Y. et al., "Suppression of Gene Expression by Targeted Disruption of Messenger RNA: Available Options and Current Strategies," <i>Stem Cells</i> , 2000, 18, 307-319	
	CX	Kitajima, I. et al., "Ablation of Transplanted HTLV-I Tax-Transformed Tumors in Mice by Antisense Inhibition of NF- κ B," <i>Science</i> , 1992, 258, 1792-1795	
	CY	Leonetti, C. et al., "Antitumor effect of c-myc Antisense Phosphorothioate Oligodeoxynucleotides on Human Melanoma Cells in Vitro and in Mice," <i>J. Natl. Canc. Inst.</i> , 1996, 88(7), 419-429	
✓	CZ	Monia, B. P. et al., "Sequence-specific Antitumor Activity of a Phosphorothioate Oligodeoxyribonucleotide Targeted to Human C-raf Kinase Supports an Antisense Mechanism of Action In Vivo," <i>Proc. Natl. Acad. Sci. USA</i> , 1996, 93, 15481-15483	
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	DD	Offensperger et al., "In vivo inhibition of duck hepatitis B virus replication and gene expression by phosphorothioate modified antisense oligodeoxynucleotides", <i>The EMBO Journal</i> , 1993 , 12(3), 1257-1262	
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	DG	Rojanasakul, Y., "Antisense oligonucleotide therapeutics: drug delivery and targeting," <i>Advanced Drug Delivery Reviews</i> , 1996 , 18, 115-131	
	DH	Simons, M. et al., "Antisense c-myb oligonucleotides inhibit intimal arterial smooth muscle cell accumulation in vivo," <i>Nature</i> , 1992 , 359, 67-70	
✓	DI	Stull, R. A. et al., "Antigene, Ribozyme and Aptamer Nucleic Acid Drugs: Progress and Prospects," <i>Pharmac. Res</i> , 1995 , 12, 465-483	
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	DL	4,806,463	02/21/89	Goodchild et al.	435	5
	DM	5,004,810	04/02/91	Draper	536	27
	DN	5,166,195	11/24/92	Ecker	514	44
	DO	5,194,428	03/16/93	Agrawal et al.	514	44
	DP	5,212,295	05/18/93	Cook	536	26.7
	DQ	5,220,007	06/15/93	Pederson et al.	536	23.1
	DR	5,242,906	09/07/93	Pagano et al.	514	44
	DS	5,248,670	09/28/93	Draper et al.	514	44
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✓	DU	5,442,049	08/15/95	Anderson et al.	536	24.5

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	EB	5,514,788	05/07/96	Bennett et al.	536	23.1
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✓	EM	5,620,963	04/15/97	Cook et al.	514	44

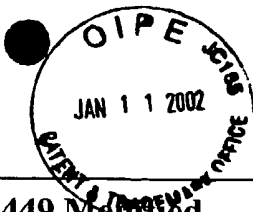
FOREIGN PATENT DOCUMENTS

Examiner Initial		Document No.	Date	Country	Translation	
					YES	NO

EXAMINER

SD Schutz

DATE CONSIDERED 6-5-2002



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Form PTO-1449 Modified				Docket No. ISIS-4847	Serial No. 09/965,551	
List of Patent and Publications Cited by Applicant (Use several sheets if necessary)				Applicant Muthiah Manoharan		
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